

Patent Claims

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1. A motor-driven pump unit, in particular for antilock systems of motor vehicles, with an electric motor (2) that is arranged on one side (3) of a pump unit (4) and fastened thereto and an electronic unit (7) that is arranged on another side (6) of the pump unit (4) and fastened thereto, **characterized in that** means (19, 20) are provided for mounting carbon brushes (15, 16) in an axially movable manner and for the electric contacting of the carbon brushes (15, 16) in connection with the axial installation of the unit.
2. A motor-driven pump unit according to Claim 1, **characterized in that** the means (19, 20) are arranged at the level of the pump housing (5).
3. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** the electronic unit (7) is provided with the means (19, 20) for mounting and contacting the carbon brushes (15, 16) in order to form an electric constructional unit.
4. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** the electronic unit (7) has at least two guide elements (21, 22) for the carbon brushes (15, 16), which are effective parallel to a rotary axis (18).
5. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** the guide elements (21, 22) are arranged in alignment with a

commutator having a contact surface (17) that is at a right angle to the rotary axis (18).

6. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** each guide element (21, 22) has a box (23, 24) that is open towards the motor for holding one of the carbon brushes (15, 16) in an axially movable manner.
7. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** each box (23, 24) is limited by a stop surface (25, 26) at an end facing away from the motor.
8. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** the stop surface (25, 26) is acted upon by a pressure spring (27, 28), whose other end acts upon a carbon brush (15, 16) in the direction of the commutator (14).
9. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** the guide elements (21, 22) are arranged at the ends (30, 31) of protruding arms (32, 33).
10. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** several arms (32, 33) are provided corresponding to the number of carbon brushes (15, 16).
11. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** the arms

(32, 33) are arranged concentrically to the motor shaft (10).

12. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** the arms (32, 33) extend parallel to the axis of the motor shaft (10) in the direction of the motor (2).

13. A motor-driven pump unit according to one or several of the preceding claims, **characterized in that** each arm (32, 33) extends through the pump unit (4).

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